

R. V. KIRKHAM

803155

**GEOLOGICAL REPORT**  
**on the**  
**TATSI GOLD-SILVER-COPPER PROSPECT**

**Kitnayakwa River Area**  
**Omineca Mining Division**  
**British Columbia**

**Latitude: 54°20' North**  
**Longitude: 127°44' West**  
**NTS: 93L/5E**

**for**  
**GOLDEN HEMLOCK EXPLORATIONS LTD.**

**by**  
**N.C. CARTER, PH.D. P.ENG.**  
**November 10, 1994**

**N.C. CARTER, Ph.D., P.Eng.**  
**CONSULTING GEOLOGIST**

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**SUMMARY**

Golden Hemlock Explorations Ltd. has entered into an option agreement with respect to the TATSI gold-silver-copper prospect situated midway between Smithers and Terrace in west-central British Columbia.

The property, which consists of two 4-post mineral claims (35 mineral claim units), is a partial relocation of ground originally worked in the late 1940's and the late 1980's and includes several recently discovered zones containing high grade gold-silver-copper mineralization. Channel samples have yielded values of 0.64 g/t gold and 887.8 g/t silver over 11.4 metres, 3.94 g/t gold and 64.7 g/t silver over 4.7 metres and 16.50 g/t gold, 1158.0 g/t silver and 2.645% copper over 4.0 metres from zones in the southeastern claims area. The original zone in the northwestern property area has returned values of up to 39.26 g/t gold and 185.0 g/t silver.

These results are considered to be significant and a first phase exploratory program is recommended to include surface surveys, prospecting, geochemical sampling, hand trenching and detailed sampling and a limited diamond drilling program at an estimated cost of \$436,550.00.

Additional work, consisting mainly of diamond drilling, would be predicated on results from the first phase program.

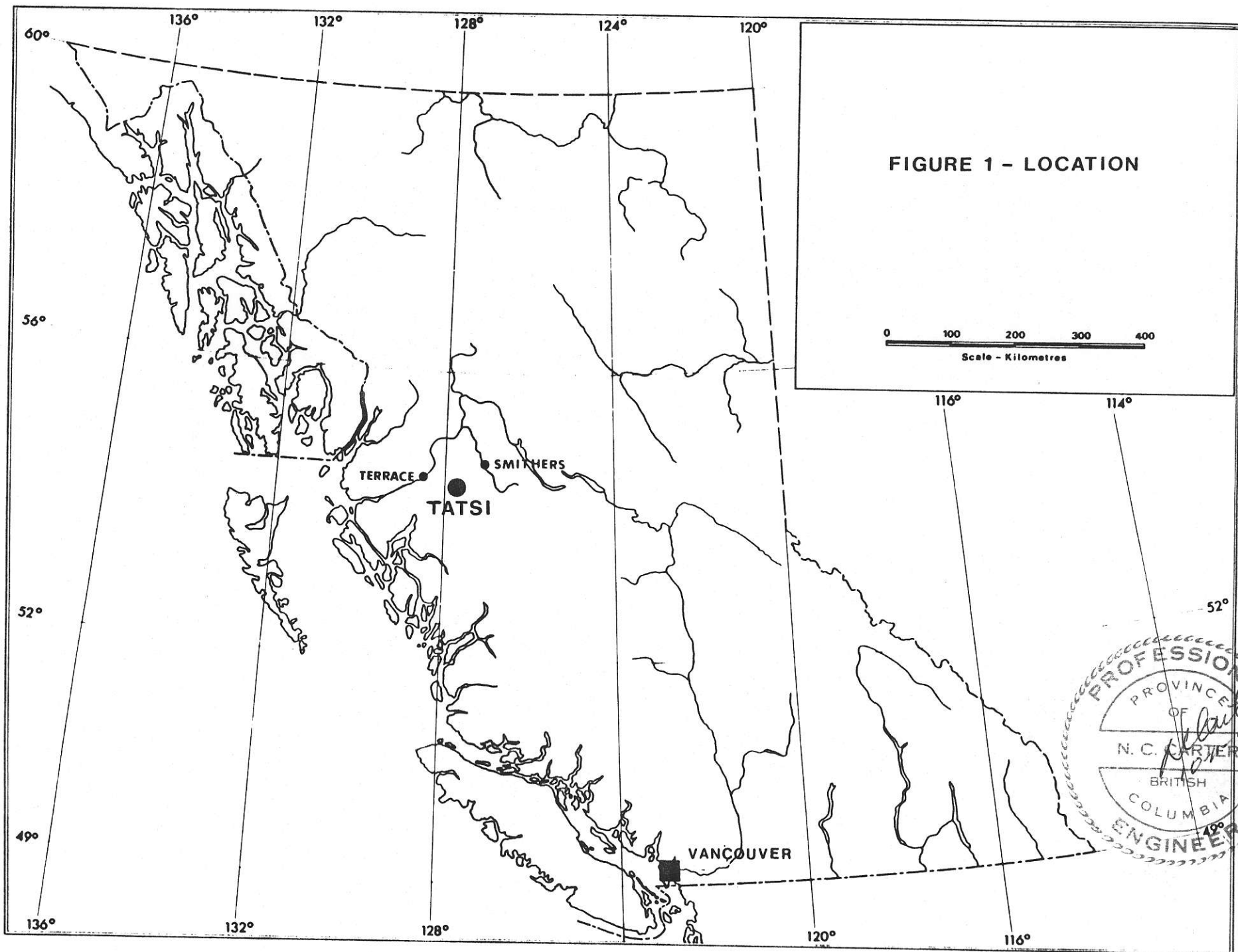


FIGURE 1 - LOCATION

0 100 200 300 400  
Scale - Kilometres

PROFESSIONAL  
ENGINEER  
PROVINCE OF  
BRITISH COLUMBIA  
N.C. CARTER  
1994

## INTRODUCTION

Golden Hemlock Explorations Ltd. has concluded an option agreement with Angel Jade Mine Ltd. for the purpose of carrying out exploratory programs to assess the potential of recently discovered polymetallic mineralization on the TATSI mineral claims situated midway between Smithers and Terrace in west-central British Columbia.

This geological report on the TATSI gold-silver-copper prospect, prepared at the request of Golden Hemlock Explorations Ltd., is based on an examination of the subject property September 20, 1994 and on results of a recent surface sampling program conducted on behalf of Angel Jade Mine Ltd.

References to information on public record concerning previous work in the vicinity of the present property and its geological setting are listed at the end of this report.

The writer has examined and reported on numerous mineral deposits and occurrences in the Smithers - Terrace area over the past twenty-five years.

## LOCATION AND ACCESS

The TATSI property is situated south of Telkwa Pass midway between Terrace and Smithers in west-central British Columbia (Figure 1). The property covers the headwaters of Tatsi Creek, a west-flowing tributary of Kitnayakwa River

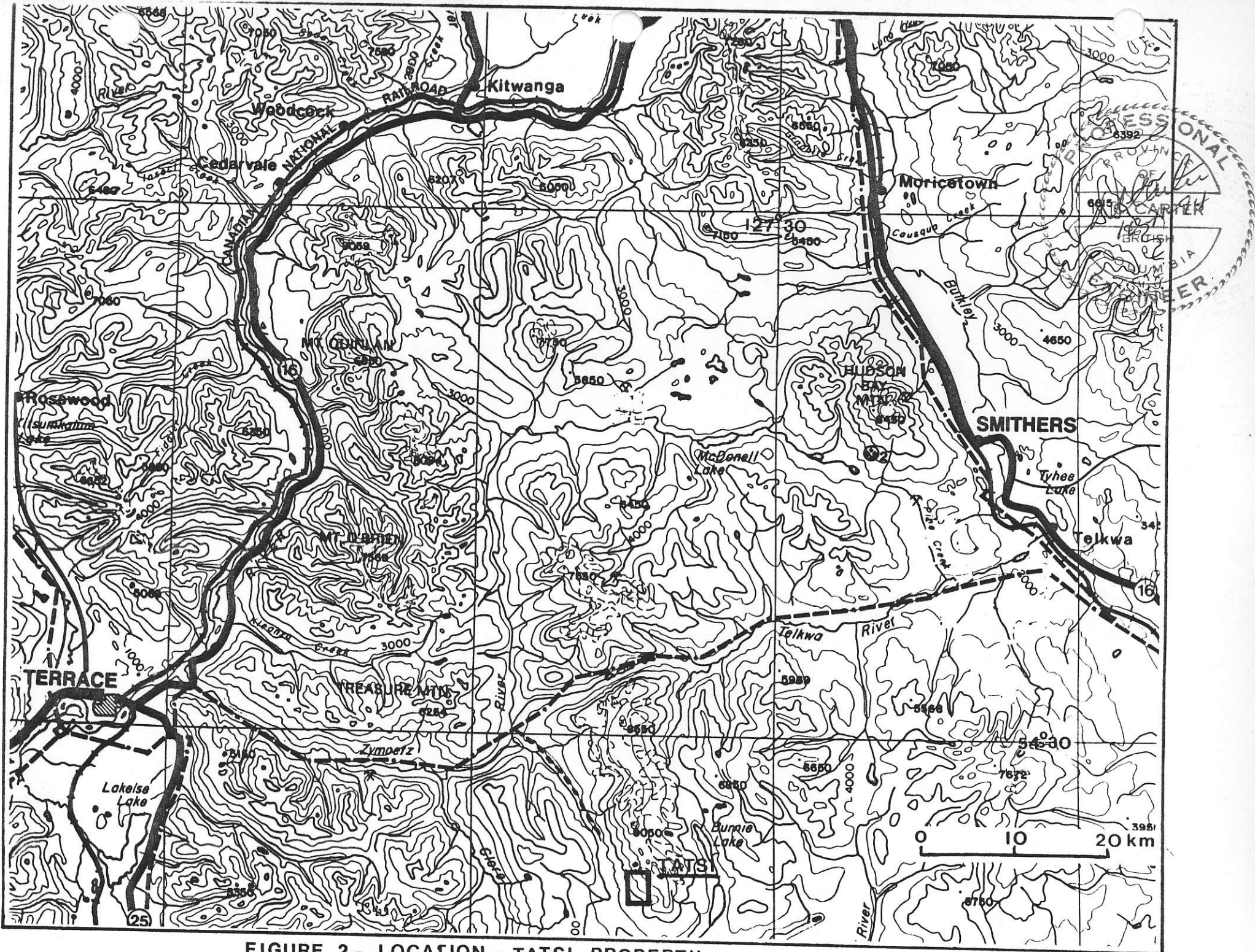


FIGURE 2 - LOCATION - TATSI PROPERTY

which flows northward into Zymoetz River.

The geographic centre of the claims, at latitude 50°20' North and longitude 127°44' West in NTS map-area 93L/5E, is 60 air-kilometres southwest of Smithers and an equal distance east-southeast of Terrace (Figure 2). Access to the property is by helicopter from either Smithers or Terrace. A network of logging roads, extending from a point on highway 16 east of Terrace and up Zymoetz River, provides conventional access into the Kitnayakwa River valley. End of road is currently 7 km northwest of the central property area (Figures 2 and 3) and affords a convenient staging area for helicopter transport of equipment and personnel.

#### MINERAL PROPERTY

The TATSI property consists of two 4-Post mineral claims (35 mineral claim units) located in the Omineca Mining Division. The mineral claims are shown on Figure 3 and details are as follows:

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Date of Record</u>
TATSI #1	330686	20	September 7, 1994
TATSI #2	330687	15	September 13, 1994

The mineral claims are believed to have been located in accordance with procedures as specified by the Mineral Tenure Act Regulations for the Province of British Columbia. No claim posts or lines have been examined by the writer.

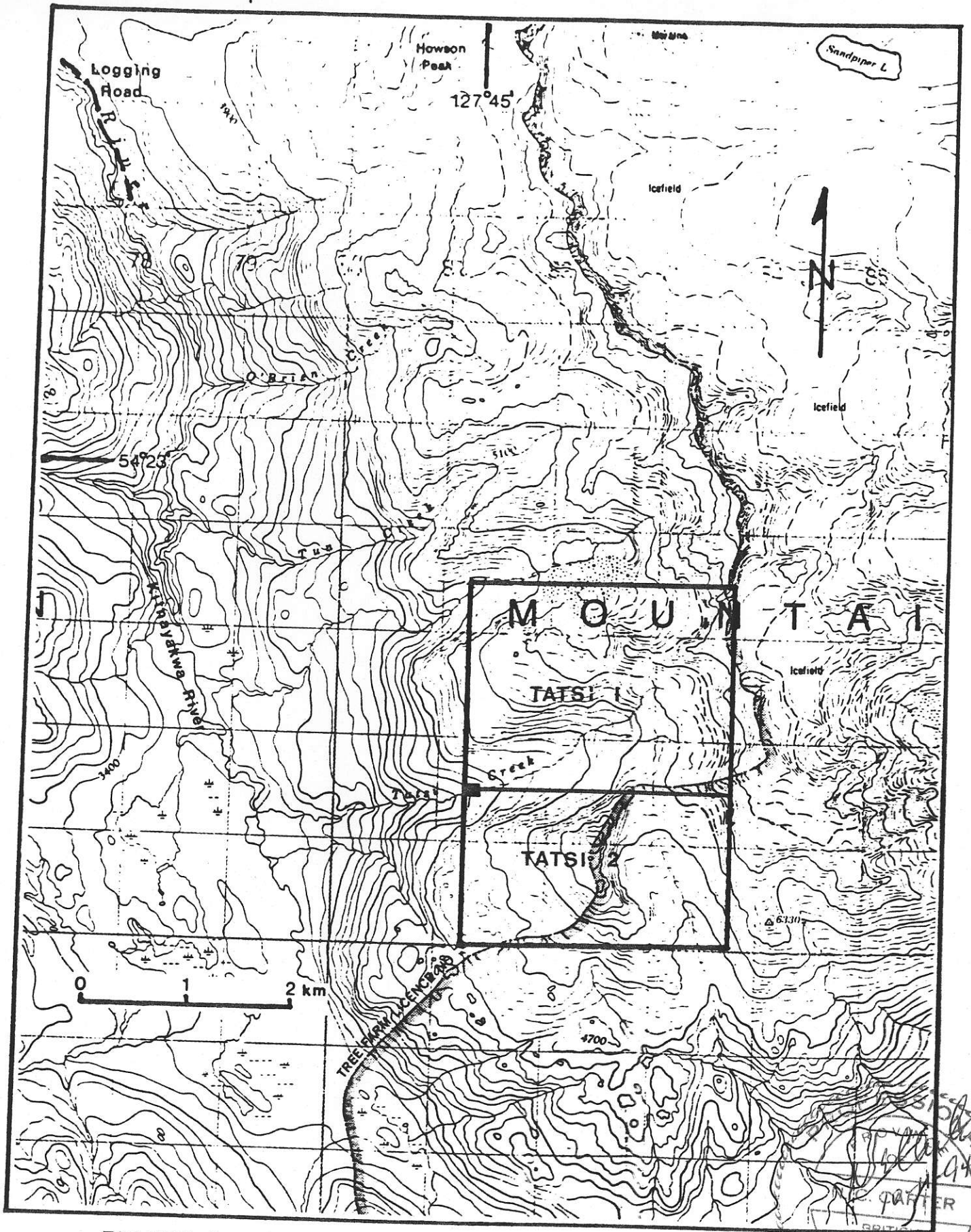


FIGURE 3-TATSI PROPERTY - MINERAL CLAIMS



The foregoing mineral claims, registered in the name of Angel Jade Mine Ltd., are subject to an option agreement between that company and Golden Hemlock Explorations Ltd. whereby Golden Hemlock can earn a 100% interest in the TATSI property (subject to a net smelter royalty payable to the vendor) by issuance of shares and cash payments over a several year period.

#### **PHYSICAL SETTING**

The TATSI property is situated in alpine terrain of the Howson Range immediately west of the height of land between the Zymoetz and Telkwa River drainages. Howson Peak, several kilometres northwest of the property (Figure 3), has an elevation of more than 2700 metres above sea level and is one of the highest points in the Smithers - Terrace area.

The TATSI claims are within an east-facing cirque dissected by several west-flowing drainages including Tatsi Creek. Topography is moderate to rugged with elevations ranging from 1300 metres along Tatsi Creek near the western boundary of the property to more than 2200 metres in the northeastern claims area (Figure 3 - note that contours are in Imperial units).

Vegetation is sparse and where present, consists of alpine mosses. Bedrock is fairly well exposed but is obscured

in a number of areas by talus and felsenmeer.

A small icefield separates higher peaks along the eastern property boundary (Figure 3). The relative lack of bedrock oxidation in the vicinity of the known mineralized zones suggests that this area was under year-round snow cover until recently.

#### **PREVIOUS WORK**

There was no documentation of mineralization in the Tatsi Creek area prior to 1988. Research of old claims recording data, which indicated that Terrace-based prospector Alec Clore had held ground near Tatsi Creek in 1949, led Atna Resources Ltd. to the area in 1987.

Three hand trenches were discovered along a quartz-carbonate-filled shear zone, claims were staked and preliminary mapping and sampling were completed by Atna Resources. This work included detailed chip sampling in the area of the hand trenches and the collection and analyses of of an additional 36 samples elsewhere on the property (Harivel, 1988). In spite of encouraging results, no further work was done and the claims were allowed to lapse.

The trenches were re-examined by prospectors Dave and Mike Heino in early September of this year and a decision was made to re-stake the ground. Additional mineralized

structures, south and east of the old trenches and containing locally high grade copper-silver mineralization, were noted while staking and detailed sampling was undertaken.

#### **REGIONAL GEOLOGICAL SETTING**

The TATSI prospect is situated in Stikine terrane in the western part of the Intermontane tectonic belt. Stikine terrane is comprised of late Paleozoic to early Tertiary volcanic and sedimentary assemblages which are intruded by a variety of plutonic rocks.

Jurassic arc-related volcanic and sedimentary sequences (Hazelton Group) are the most widespread in the area of interest and these are intruded by coeval granitic rocks of the Topley intrusions and by younger late Cretaceous and early Tertiary intrusions.

The older Topley intrusions occur principally along the axis of the Skeena Arch, a major northeast-trending transverse uplift structure which marks the southern limits of the Bowser Basin and its contained clastic sediments of late Jurassic and early Cretaceous age. Skeena Arch, the axis of which is 20 - 30 km south Tatsi Creek, also marks the northern limits of areally extensive, early to mid-Tertiary continental volcanic rocks which overlie older Mesozoic assemblages.

West-central British Columbia is well known for its number and variety of mineral deposit types. Porphyry copper and/or molybdenum deposits and prospects, some of which contain significant by-product gold contents, have received most of the attention over the past twenty years. These are associated with granitic plutons of late Cretaceous (Bulkley intrusions -70-80 million years) and Tertiary (Babine and Nanika intrusions -50 million years) age which cut Mesozoic sequences.

Polymetallic vein deposits and occurrences, related to the younger intrusive epochs, are widespread throughout the area.

Early and middle Jurassic volcanic and sedimentary sequences in west-central British Columbia host a variety of mineral deposit types including epithermal gold-silver mineralization, volcanogenic sulphide deposits, and a large number of copper-silver (gold) deposits, prospects and occurrences in the area between Terrace and the Telkwa Range south of Smithers. The latter may be considered as stratabound, being hosted principally by early Jurassic subaerial volcanics. Mineralization, mainly in the form of bornite, chalcocite and lesser chalcocite, occurs in flow tops and in quartz veins.

## PROPERTY GEOLOGY AND MINERALIZATION

The TATSI property is underlain by Early Jurassic subaerial volcanic pyroclastics and flows of the basal Hazelton Group. Known as the Howson subaerial facies of the Telkwa Formation (Tipper and Richards, 1976), the sequence consists of maroon, reddish and purple and grey-green massive to well-bedded pyroclastics and flows of andesite-dacite composition.

These are preserved in an uplifted horst block (Harivel, 1988) making up the Howson Range and defined by north-northwesterly faults paralleling Kitnayakwa and Burnie Rivers. The northern part of this uplifted block, in the Telkwa Pass area, is cored by coeval Topley granitic rocks. Limestone, noted locally in the western claims area, may be part of an overlying marine sequence.

In the immediate property area, the volcanic sequence strikes northerly, dips moderately to the east (see Figure 4) and consists of reddish, maroon and grey-green coarse pyroclastics and finer grained, well-bedded tuffs. Tertiary granitic stocks cut the volcanics south and west of the property (Figure 4) and a number of northerly trending biotite-feldspar porphyry and diorite dykes, up to 8 metres wide, have been noted in the claims area (Harivel, 1988).

Several quartz vein structures containing appreciable

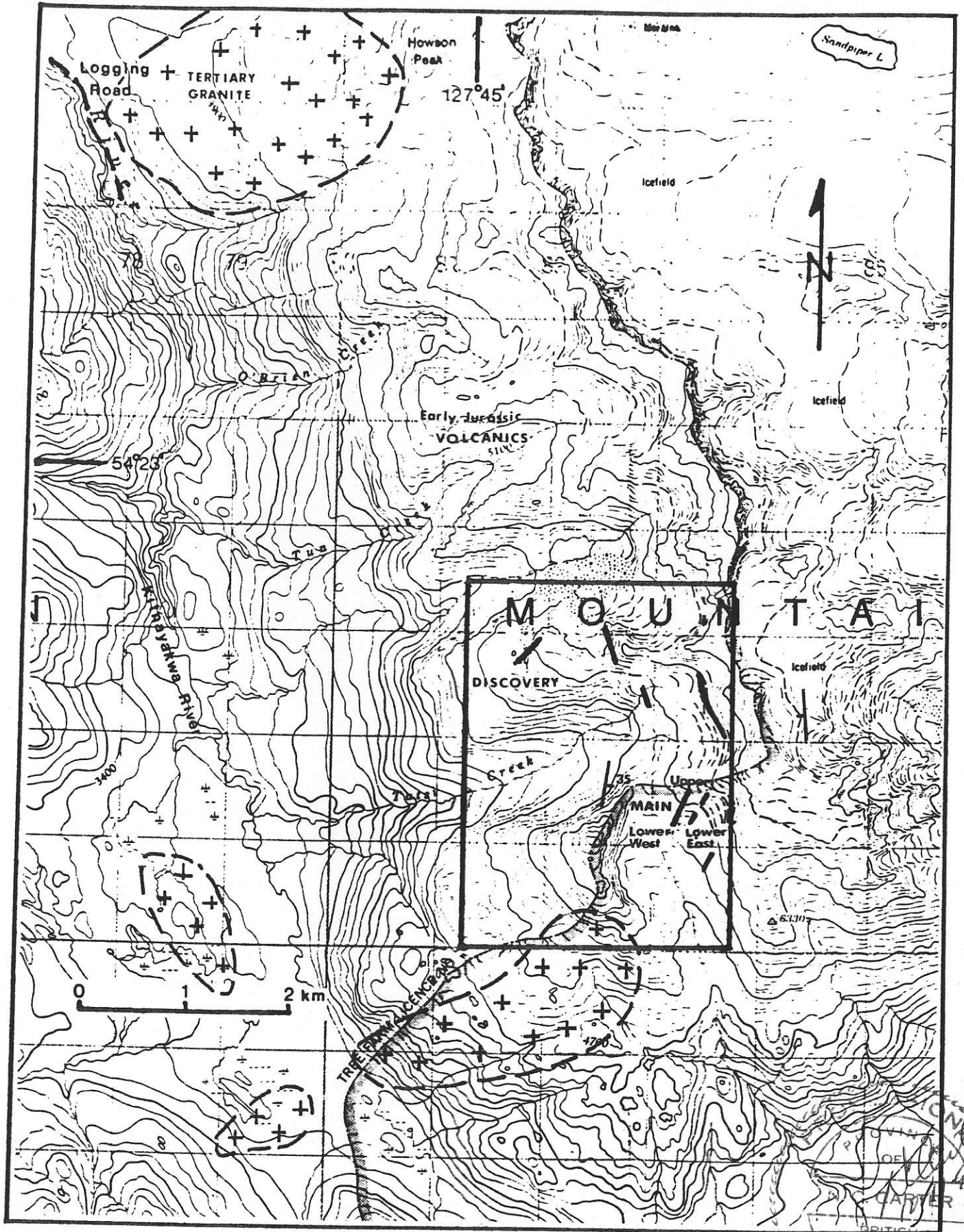


FIGURE 4 - TATSU PROPERTY - MINERALIZED ZONES

gold, silver and copper grades have been identified by limited work to date, including the Discovery, Main, Upper, Lower West and Lower East zones (Figure 4).

The Main, Upper, Lower West and Lower East zones, situated south and east of Tatsi Creek (Figure 4), are quartz vein structures which trend north to northeasterly and are apparently vertical. The Main, Lower West and Upper zones are part of the same structure that is exposed over a strike length of more than 200 metres and over widths of between 4 and 15 metres (Figure 5).

Metallic minerals within the structure consist principally of streaks and disseminations of bornite and chalcocite. Wiry native silver is locally abundant and other silver-bearing minerals probably include argentite, tetrahedrite, argentiferous galena and sulphosalts. ICP analyses also indicate local concentrations of sphalerite.

A limited sampling program was undertaken late in the season and sample locations are shown on Figure 5. Complete assay results for gold and silver (and two copper assays) are contained in Appendix I; 31 element ICP analyses for some of the samples are contained in Appendix II. The following table summarizes significant results:

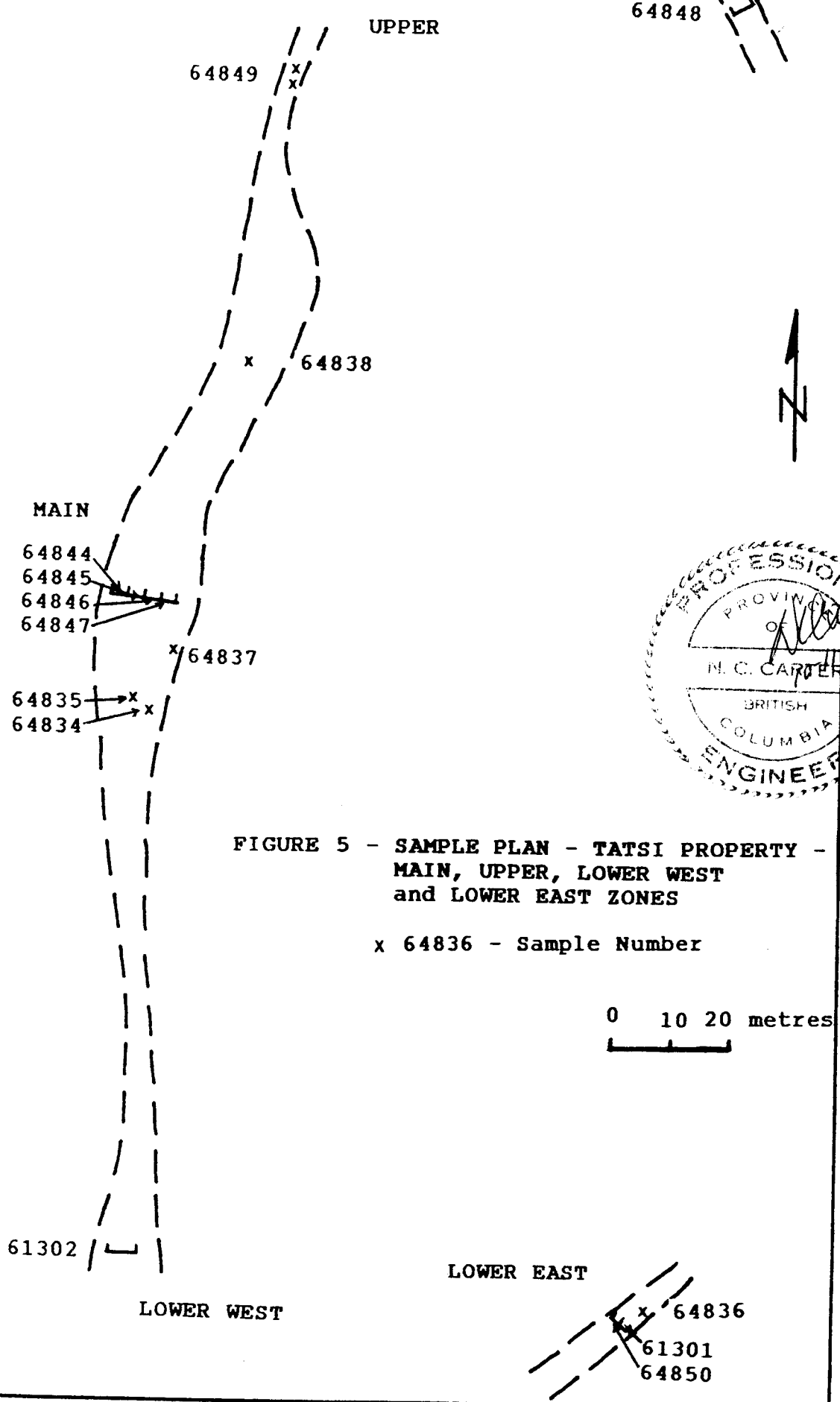


FIGURE 5 - SAMPLE PLAN - TATSI PROPERTY -  
 MAIN, UPPER, LOWER WEST  
 and LOWER EAST ZONES

x 64836 - Sample Number

0 10 20 metres



<u>Sample No.</u>	<u>Zone</u>	<u>Width(m)</u>	<u>Au(g/t)</u>	<u>Ag(g/t)</u>	<u>Cu(ppm)</u>
64844	Main*	3.0	0.88	872.0	>10000
64845	" *	3.0	0.32	1710.0	>10000
64846	" *	3.0	0.24	360.3	5766
64847	" *	2.4	1.24	539.0	>10000

(Weighted average grades - 0.64 g/t Au, 887.8 g/t Ag/11.4 m)  
or 0.019 oz/ton Au, 25.75 oz/ton Ag/37 ft.)

64834	Main**		4.86	449.0	N/A
64835	" **		5.57	244.1	N/A
64837	" **		1.47	566.0	N/A
64838	" **		0.09	44.8	N/A
64825	Main,Upper**		1.90	977.5	>10000
64826	" **		3.65	4057.4	>10000
64827	" **		0.30	832.9	>10000
64828	" **		3.72	1408.7	>10000
64829	" **		0.79	3188.6	>10000
64849	Upper**		0.27	87.0	8240
64848	" **		0.14	36.5	1602
61303	" **(100m east)		10 ppb	8.4 ppm	188
61302	Lower West*	4.7	3.94	64.7	2254
			(0.114 oz/ton Au, 1.9 oz/ton Ag/15.4 ft.)		
64850	Lower East*	2.0	30.38	1493.0	2.805%
61301	" " *	2.0	2.62	823.0	2.485%

(Weighted average grades-16.50 g/t Au,1158.0 g/t Ag and  
2.645% Cu/4 metres or 0.479 oz/ton Au, 33.6 oz/ton Ag,  
2.645% Cu/13.1 ft.)

64836	Lower East**		15.53	1548.0	N/A
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Note: \* - Channel Sample  
\*\* - Character Sample

The foregoing results indicate the presence of significant gold and silver (and copper) grades over appreciable widths within the areas sampled. ICP results (Appendix II) indicate some lead values in excess of 10000

ppm and lesser amounts of zinc.

The Discovery zone, north of Tatsi Creek in the northwestern property area, consists of a shear zone within which quartz and quartz-carbonate veins and stringers are developed in silicified and carbonate altered volcanics (Harivel, 1988). The zone, which trends northeasterly and dips moderately to the east, has been traced intermittently in bedrock exposures and in three hand trenches over a strike length of more than 300 metres.

Sampling of the Discovery zone by Atna Resources in 1987 (Harivel, 1988) included a composite chip sample across a 2 metre width grading 9.19 g/t gold (0.268 oz/ton). This site, 25 metres north of the northernmost hand trench, includes two parallel quartz veins separated by bleached, carbonate altered country rock. Three grab samples from the two veins returned values of 60410, 4250 and 16350 ppb gold (1.752, 0.123 and 0.474 oz/ton).

Recent panel sampling of the two quartz veins (Figure 6) in the vicinity of the Atna sampling returned the following results:

<u>Sample No.</u>	<u>Width(m)</u>	<u>Au(g/t)</u>	<u>Ag(g/t)</u>
64830	0.1	16.24	63.4
64831	0.4	81.46	248.8
64832	0.7	23.70	187.7
64833	0.1	2.50	33.1

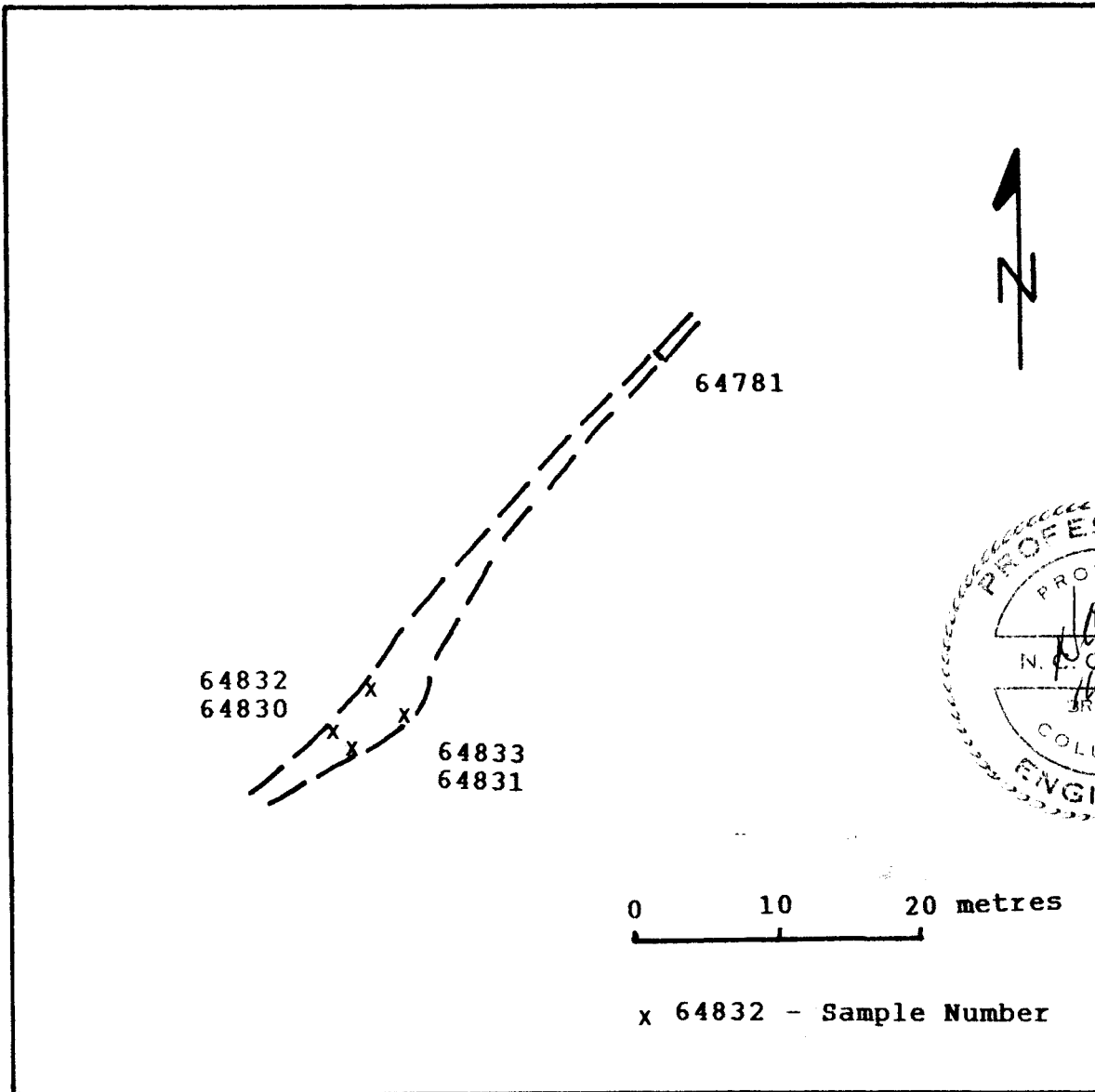


FIGURE 6 - SAMPLE PLAN - TATSI PROPERTY - DISCOVERY ZONE

The foregoing results yield weighted average grades of 39.26 g/t gold (1.139 oz/ton) and 185.0 g/t silver (5.37 oz/ton).

A channel sample (No. 64781) across a 1 metre width 30 metres to the northeast (Figure 6) returned values of 5.93 g/t gold (0.173 oz/ton) and 196.8 g/t silver (5.74 oz/ton), in general agreement with Atna Resources sampling which yielded 5.46 g/t gold (0.158 oz/ton).

Sampling of the vein structure some 300 metres to the southwest (Harivel, 1988) returned gold values of 4350, 7610 and 445 ppb (0.126, 0.221 and 0.013 oz/ton) over 10 to 20 cm widths.

Other areas sampled by Atna included a quartz vein stockwork east of the north end of the Discovery zone from which one grab sample returned 370 ppb gold and 12 ppm silver and 40 cm wide flat quartz veins further to the east from which grades of up to 2365 g/t silver and 885 ppb gold were obtained. Reconnaissance prospecting and the collection of grab samples of talus in what is now the northeastern part of the TATSI property yielded values of up to 3480 ppb gold and 45.2 ppm silver (Harivel, 1988).

Mineralogy of the Discovery zone, which, based on sampling to date apparently contains higher gold values but lower silver than the other zones, is not entirely clear.

Harivel(1988) refers to the presence of chalcopyrite, galena, sphalerite and sulphosalts but makes no mention of the presence of native silver.

The presence of locally abundant native silver in the other known zones on the TATSI property makes it somewhat unique relative to the numerous copper-silver (gold) deposits and occurrences known throughout this district.

BC Minfile contains references to 208 deposits and occurrences in British Columbia with reported native silver. Most of these occurrences are in historic mining camps including Boundary, Beaverdell and the Kootenay Arc in southeastern B.C. and the Stewart - Alice Arm district in the northwest. Virtually all of these are associated with silver-lead-zinc (gold) systems.

Native silver occurrences in association with predominantly copper mineralization are few but do include the Drum Lummon deposit southwest of Kitimat where small amounts of native silver occur with bornite and chalcopyrite in a pegmatite. Another example is the Snowflake occurrence, on a tributary of Zymoetz River 15 km northwest of the TATSI property, where native silver is associated with arsenopyrite and chalcopyrite mineralization in quartz veins marginal to a diorite dyke.

**CONCLUSIONS AND RECOMMENDATIONS**

Results obtained from limited prospecting and sampling programs to date are extremely encouraging and suggest that the TATSI property is one of potential significance. Additional exploratory work is definitely warranted.

It is recommended that a first phase program be initiated as soon as weather conditions permit. Prior to the inception of the program, necessary permitting must be obtained and a compilation of all available data undertaken. Base maps, preferably on an orthophoto base, should be prepared.

The field program is recommended to include establishment of a picket line grid to facilitate geological mapping, prospecting and geochemical sampling of the entire claims area. Hand trenching of the known zones followed by detailed sampling should be an integral part of the initial work.

It is also recommended that orientation magnetometer and VLF-EM surveys be undertaken to determine the response over the known structures and if this work is successful, these surveys should be extended over the property area.

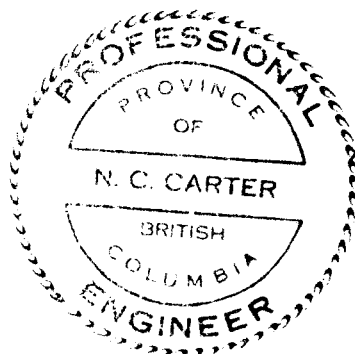
A limited diamond drilling program, to test the depth potential of the known zones and consisting of 15 inclined holes to depths of 100 metres, is also recommended

as part of the initial phase program.

Additional exploratory work, consisting mainly of diamond drilling, would be predicated on the results of the first phase program.

**COST ESTIMATE****Phase I**

Compilation studies, permitting procedures, reclamation bonding	\$25,000.00
Base map preparation	\$7,500.00
Geological mapping, prospecting, hand trenching, detailed and geochemical sampling - 6 person crew - - 30 days @ \$1,700/day	\$51,000.00
Support costs - camp, meals - - \$150/person/day x 6 x 30 days	\$27,000.00
Geophysical surveys - 70 line km @ \$300/km	\$21,000.00
Helicopter support - 35 hours @ \$800/hour	\$28,000.00
Diamond Drilling - 1500 metres @ \$120/metre (all-inclusive)	\$180,000.00
Analytical Costs - 1,500 samples @ \$16.70	\$25,050.00
Supervision, reporting	\$15,000.00
Contingencies	<u>\$57,000.00</u>
<b>Total, Phase I</b>	<b>\$436,550.00</b>



*N.C. Carter Ph.D. P.Eng.*  
N.C. Carter, Ph.D. P.Eng.



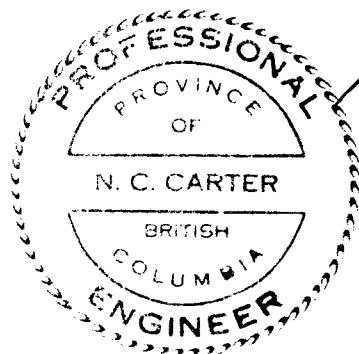
**REFERENCES**

- Carter, N.C. (1981): Porphyry Copper and Molybdenum Deposits, West-Central British Columbia, BCMEMPR Bulletin 64
- Harivel, Colin (1988): Geochemistry of the Alec Property, Omineca Mining Division, B.C., BCMEMPR Assessment Report 17971
- Tipper, H.W. and Richards, T.A. (1976): Jurassic Stratigraphy of North-Central British Columbia, Geological Survey of Canada Bulletin 270

**CERTIFICATE**

I, NICHOLAS C. CARTER of 1410 Wende Road, Victoria, British Columbia, do hereby certify that:

1. I am a Consulting Geologist registered with the Association of Professional Engineers and Geoscientists of British Columbia since 1966.
2. I am a graduate of the University of New Brunswick with B.Sc.(1960), Michigan Technological University with M.S.(1962) and the University of British Columbia with Ph.D.(1974).
3. I have practised my profession in eastern and western Canada and in parts of the United States for more than 25 years.
4. I am the author of the foregoing Geological Report on the TATSI Gold-Silver-Copper Prospect, Omineca Mining Division, B.C., which is based on a personal examination of the property September 20, 1994, on results of a recent sampling program and on information available in the public record.
5. I hold no interest, directly or indirectly, in the mineral claims comprising the TATSI property or in the securities of Golden Hemlock Explorations Ltd. nor do I expect to receive any such interest.
6. Permission is hereby granted to Golden Hemlock Explorations Ltd. to use this report in support of necessary filings with the British Columbia Securities Commission and the Vancouver Stock Exchange.



*N.C. Carter Ph.D. P.Eng.*  
N.C. Carter, Ph.D. P.Eng.

Victoria, B.C.  
November 10, 1994

N.C. CARTER, Ph.D., P.Eng.  
CONSULTING GEOLOGIST

**APPENDIX I**  
**Assay Results**



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
706 WEST 16TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-6614 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**  
3178 TATLOW ROAD  
SMITHERS B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

**Geochemical Analysis Certificate**

**4S-0276-RG1**

Company: **J T THOMAS DIAMOND DRILLING LTD**  
Project: **DH**  
Attn: **Jim Thomas**

Date: **SEP-26-94**  
copy 1. J.T. Thomas, Smithers, B.C.

We hereby certify the following Geochemical Analysis of 4 rock samples  
submitted SEP-22-94 by **RAY BRACKENBERRY**.

Sample Number	Au-Wet PPB	Ag PPM
61303	10	8.4
61304*	2510	556.0
61305	15	58.7
61306	80	35.7

\* Possible Metallic Au

Certified by

  
MIN-EN LABORATORIES



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
708 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 986-4624  
FAX (604) 980-9821

**SMITHERS LAB.:**  
3178 TATLOW ROAD  
SMITHERS B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

4S-0276-RA1

Company: **J T THOMAS DIAMOND DRILLING LTD**  
Project: **DH**  
Attn: **Jim Thomas**

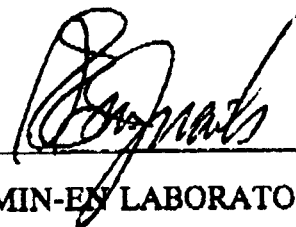
Date: **SEP-26-94**  
copy 1. J.T. Thomas, Smithers, B.C.

We hereby certify the following Assay of 9 rock samples  
submitted SEP-22-94 by **RAY BRACKENBERRY**.

Sample Number	Au-Fire g/tonne	Au-Fire oz/ton	Ag g/tonne	Cu %
61301*	2 62	.076	823.0	2.485
61302	3 94	.115	64.7	
64844*	88	.026	872.0	
64845	32	.009	1710.0	
64846	24	.007	360.3	
64847	1 24	.036	539.0	
64848	14	.004	36.5	
64849	27	.008	87.0	
64850*	30 38	.886	1493.0	2.805

\* Possible Metallic Au

Certified by



MIN-EN LABORATORIES

SPECIALTY ANALYSIS LABORATORIES

Assay Certificate

4S-0261-RA1

Company: **J T THOMAS DIAMOND DRILLING LTD**  
Project: **D H**  
Attn: **Jim Thomas**

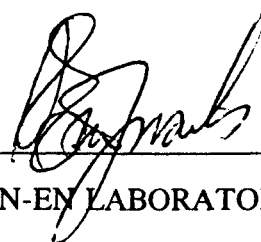
Date: **SEP-15-94**  
Copy 1. J.T. Thomas Drilling, Smithers, B.C.

We hereby certify the following Assay of 9 rock samples submitted SEP-09-94 by MIKE HEINO.

Sample Number	Au-Fire		Ag	
	g/tonne	oz/ton	g/tonne	oz/ton
64825 *	1.90	.055	977.5	28.51
64826 *	3.65	.106	4057.4	118.34
64827 *	.30	.009	832.9	24.29
64828 *	3.72	.109	1408.7	41.09
64829 *	.79	.023	3188.6	93.00
64830	16.24	.474	63.4	1.85
64831	81.46	2.376	248.8	7.26
64832	23.70	.691	187.7	5.47
64833	2.50	.073	33.1	.97

\* Ag - gravimetric finish

Certified by



MIN-EN LABORATORIES



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**

706 WEST 16TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 880-5814 OR (604) 888-4524  
FAX (604) 880-8821

**SMITHERS LAB.:**

3178 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

4S-0269-RA1

Company: **J T THOMAS DIAMOND DRILLING LTD**  
Project: **D H**  
Attn: **Jim Thomas**

Date: **SEP-20-94**  
copy 1. J T Thomas Drilling, Smithers, B.C.

We hereby certify the following Assay of 10 rock samples  
submitted SEP-16-94 by DAVE HEINO.

Sample Number	Au-Fire g/tonne	Au-Fire oz/ton	Ag g/tonne	Ag oz/ton
64834	4.86	.142	449.0	13.10
64835	5.57	.162	244.1	7.12
64836	15.53	.453	1548.0	45.15
64837	1.47	.043	366.0	16.51
64838	.09	.003	44.8	1.31
64839	.04	.001	3.9	.11
64840	.03	.001	3.0	.09
64841	.02	.001	3.3	.10
64842	.04	.001	1.4	.04
64843	.02	.001	1.0	.03

Certified by \_\_\_\_\_

MIN-EN LABORATORIES



**APPENDIX II**  
**ICP Results**



COMP: J I THOMAS DIAMOND DRILLING LTD  
 PROJ: DH  
 ATTN: Jim Thomas

MIN-EN LABS --- ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 TEL:(604)980-5814 FAX:(604)980-9621

FILE NO: 4S-0276-RJ1+D1  
 DATE: 94/11/07  
 \* \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CU PPM	FE %	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI %	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
61301	>200.0	.08	97	1	1068	.5	64	.34	.1	3	>10000	1.81	.13	1	.05	671	4	.01	12	130	507	22	112	1	.01	4.7	131	1	1	12	211
61302	56.7	.16	1	1	4856	.7	12	.25	.1	4	2254	1.95	.12	4	.10	926	4	.01	13	120	72	6	133	1	.01	7.3	113	1	1	11	215
64844	>200.0	.02	78	1	1675	.2	68	.09	.1	2	>10000	.82	.04	1	.01	310	3	.01	5	60	51	17	34	1	.01	1.9	45	1	1	12	199
64845	>200.0	.05	72	1	1403	.2	174	.12	.1	2	>10000	1.20	.08	1	.01	324	5	.01	11	130	64	33	35	1	.01	3.1	49	1	1	19	213
64846	>200.0	.17	47	1	3860	.6	21	.12	.1	3	5766	1.41	.28	1	.03	560	7	.01	10	160	>10000	62	110	1	.01	8.5	87	1	1	18	351
64847	>200.0	.13	263	1	83	.4	30	.09	32.2	2	>10000	1.37	.20	1	.02	355	6	.01	10	110	>10000	2903	16	1	.01	6.4	857	1	1	15	264
64848	31.3	.08	1	1	1440	.5	7	.11	30.9	2	1602	1.27	.14	1	.01	616	4	.01	8	110	6566	238	35	1	.01	4.6	3410	1	1	11	207
64849	76.9	.06	167	1	476	.5	17	.01	>100.0	2	8240	1.78	.13	1	.01	346	5	.01	8	40	>10000	1026	99	1	.01	3.4	4491	1	1	12	221
64850	>200.0	.09	97	1	465	.4	71	.16	.1	3	>10000	2.10	.12	1	.04	643	5	.01	12	80	1223	32	176	1	.01	6.3	154	1	1	16	267
61303	5.3	.13	25	1	260	.7	3	2.54	.1	4	188	2.22	.20	1	.19	2005	4	.01	14	540	849	71	28	1	.01	14.7	1006	1	1	12	189
61304	>200.0	.05	874	1	267	.6	103	.34	>100.0	5	>10000	2.61	.08	1	.02	2843	6	.01	19	970	5013	4937	600	1	.01	3.9	>10000	1	1	12	214

COMP: J T THOMAS DIAMOND DRILLING LTD  
 PROJ: D II  
 ATTN: Jim Thomas

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 TEL:(604)980-5814 FAX:(604)980-9621

FILE NO: 4S-0261-RJ1  
 DATE: 94/11/07  
 \* \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CU PPM	FE %	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	Tl %	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
64825	>200.0	.02	120	1	1563	.1	99	.04	.1	1	>10000	.82	.02	1	.01	226	1	.01	6	70	73	19	220	1	.01	2.3	38	1	1	14	245
64826	>200.0	.01	72	1	294	.1	703	.04	.1	2	>10000	1.43	.03	1	.01	199	5	.01	10	1800	126	79	34	1	.01	2.4	45	1	1	14	142
64827	>200.0	.02	49	1	154	.1	115	.11	.1	1	>10000	.82	.03	1	.01	310	1	.01	6	60	109	17	8	1	.01	2.5	51	1	1	14	221
64828	>200.0	.04	37	1	29	.2	49	.06	.1	1	>10000	.83	.05	1	.03	211	5	.01	5	100	44	19	8	1	.01	3.7	42	1	1	17	236
64829	>200.0	.02	81	1	420	.2	640	.02	.1	3	>10000	1.79	.04	1	.01	154	5	.01	12	1750	>10000	149	49	1	.01	1.7	91	1	1	13	120
64830	64.1	.01	109	1	92	.7	24	.01	.1	2	1942	2.62	.03	1	.01	48	4	.01	11	20	8058	11	10	1	.01	.6	206	1	1	11	234
64831	>200.0	.06	350	1	85	2.3	108	.01	.1	11	>10000	11.29	.11	1	.01	70	1	.01	39	30	>10000	32	21	1	.01	2.1	931	1	2	9	149
64832	181.6	.02	461	1	35	2.7	198	.01	62.6	18	>10000	12.76	.03	1	.01	133	1	.01	48	30	>10000	55	22	1	.01	1.3	9323	1	2	12	194
64833	27.3	.02	104	1	687	.9	29	.52	.1	6	8001	3.75	.03	1	.05	1796	1	.01	19	20	628	15	15	1	.01	3.6	334	1	1	7	130